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MUNICIPAL WATER FACILITIES INVENTORY AS OF JANUARY 1, 1958. HAWAII. A COOPERATIVE STATE-FEDERAL REPORT

Public Health Service
Washington, D. C.

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HAWAII

MUNICIPAL WATER FACILITIES

Inventory as of January 1, 1958

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Public Health Service

10

NOTES REGARDING TABULATIONS

GENERAL

This volume is one of nine which, taken together, comprise an inventory of public water supply facilities in the United States as of January 1, 1958. The listing includes all facilities serving places having a 1950 population of 100 or more which have been reported by the respective State Departments of Health. In a few States, places smaller than this size have been reported, and in one or two others the minimum size has been somewhat greater. The listing is alphabetic by name of place within the State. At the end of each State listing there appear the names of all places having a 1950 population of 100 or more but which were not reported as having a community water supply. Persons desiring more detailed information about water supply facilities in the larger communities are referred to PHS Publication No. 661, Municipal Water Facilities Communities of 25,000 Population and Over--Continental United States and Territorial Possessions--As of January 1, 1958. The data on these larger communities in this volume are extracted from that publication.

The purpose of this inventory is to furnish up-to-date information on all water facilities for the use of industries and other private agencies and all levels of government. The Public Health Service will assist in making this material more useful through the publication of special papers based on statistical analysis of the data.

In the following discussion, each individual item listed is defined as an "entry." An "x" in the listing indicates that the data requested were unknown. A dash, "-" signifies the item does not apply. A triangle "Δ" shows information was not supplied.

Detailed Notes for Columns

Column 1 - Community or District

Entries marked with a star have facilities which serve one or more additional communities.

Column 2 - 1950 Population, Estimated Population Served

Top-line Entry - 1950 population (U. S. Bureau of the Census where available).
Bottom-line Entry - estimated total number of people served by the facility. Data in parentheses indicate population served by some other facility.

Column 3 - Year Operation Started

Top-line Entry - Present Supply . . . the year the present source of supply was put into service, or the latest year during which a new or additional source was developed.
Bottom-line Entry - Present Treatment Plant . . . the year the present treatment plant was put into operation, or the date of the latest major revision or addition.

Column 4 - Ownership

M - Public (Federal, State, county, municipal, district, etc.)
P - Private (private corporations, companies, etc.)

Column 5 - Number of Services, Number of Meters

Top-line Entry - Number of accounts served by the facility.
Bottom-line Entry - Number of meters used in the water system.

Column 6 - Laboratory Control

Refers to control by a plant laboratory, not to samples analyzed elsewhere.
C - Chemical (other than chlorine residual)
B - Bacteriological
N - None

Column 7 - Source of Supply

The source or sources from which water is obtained. Specific lakes or streams are named when possible.

Column 8 - Safe Yield, Impounded (Surface) Maximum Dependable Draft, (Ground)

Top-line Entry - Safe Yield, Surface, the maximum safe daily yield which can be secured from the source of water supply based on the driest period of record.

Bottom-line Entry - Maximum Dependable Draft, Ground Water, the maximum dependable 24-hour draft of a well field or fields, or other ground source, which can be sustained for a period of high demand through five days. (Number of wells now in use may have no bearing on this figure.)

The designation "Unl." signifies a relatively large or unlimited supply.

Column 9 - Rated Plant Capacity and Average Plant Output

Top-line Entry - Rated Capacity, the maximum rated daily capacity on the basis of filters, pumps, or other limiting factor.

Bottom-line Entry - Average, the average daily output of the facility.

Column 10 - Treatment

Where the treatment is at all extensive, one or more symbols identifying the general type or function of the plant precede those used to identify the particular treatment plant or method. In general, a plant is not classified as a "purification plant" unless filters having fine granular material (sand or anthracite) are used.

Principal treatment features, identified by capitalized letters, are further described by lower case letters following them. In general, the symbols are arranged in the order in which treatment occurs. Combination units performing more than one function in a single structure are denoted by enclosing the appropriate symbols in parentheses. Enclosures in brackets indicate parallel or alternate operation.

Treatment methods are coded as follows:

Type of Plant

P - Purification
H - Softening
I - Iron or Manganese removal

Treatment or Device

A - Aeration
- Ac ..contact beds or trays, coke or other material
- Am..patented aerator
- As ..spray aerator
- At...overflow trays cascade or other splash aerator
- Ao ..other type aerator

C - Chemical dosage for coagulation or softening
- Ca ..alum
- Ci...iron salts
- Cl...lime
- Cs ..soda ash
- Ct...activated silica
- Co ..other coagulant

D - Disinfection
- Dc ..chlorine gas
- Dd ..dechlorination
- Dh ..hypochlorites
- Ds ..free residual chlorine
- Dx ..chlorine dioxide
- Dz ..ozone
- Do ..Other means

F - Filters
- Fa ..anthrafilt
- Fc ..roughing or contact
- Fd ..diatomaceous earth
- Fg ..gravity (slow)
- Fp ..pressure
- Fr ..gravity (rapid)
- Fs ..sand
- Fz ..zeolite

K - Chemical dosage for corrosion correction or water stabilization
- Kc ..phosphate compounds
- Kg ..chlorine gas
- Kh ..hypochlorite
- Ko ..sodium silicate
- Kp ..alkali feed for pH adjustment

M - Mixing device or tank
- Ma ..air agitation
- Mb ..baffle mix
- Mh ..hydraulic (standing wave flume)
- Mi ..injection or pump suction
- Mp ..slow mechanical mix
- Ms ..patented sludge blanket
- Mt ..rapid mechanical mix
- (MtpsSv)..."Liquon Reactor": "Accelator"; or "Precipitator"

Treatment or Device (continued)

N - Ammoniation
- Nc ..ammonium compound
- Ng ..ammonia gas

R - Recarbonation

S - Sedimentation
- Sb...basins, baffled (other than inlet or outlet)
- Sc...covered basins (other than housed)
- Sm..mechanical sludge removal
- So...open basin (may be in plant building)
- Sv...upflow cylindrical tanks
- (MtpsSv).."Liquon Reactor"; "Accelator"; or "Precipitator"

T - Chemical taste and odor control
- Tc ..activated carbon
- Td ..chlorine dioxide
- Ts ..sulfur dioxide
- Tz ..ozone
- To ..other

V - Fluoride adjustment
- Va ..hydrofluosilicic acid
- Vs ..sodium silicofluoride
- Vt...sodium fluoride
- Ve ..ammonium silicofluoride
- Vo ..other fluorides
- -V ...fluoride reduction
- $V_{1.2}$ - 1.2 ppm natural fluoride

Column 11 - Distribution Storage

Top-line Entry - Pumped to Mains..storage of finished water in the distribution system area that must be pumped into mains (clearwells, underground or low level storage, etc.)

Bottom-line Entry - Elevated..storage of finished water in the distribution system area that will flow into mains by gravity (elevated tanks, standpipes, high level reservoirs, etc.).

Water storage in impounding reservoirs or balancing reservoirs on long supply conduits not included.

Column 12 - Improvements Needed

Improvements currently needed to provide adequate service. The following codes are used:

N - None	G - Ground storage
U - Source, underground	L - Elevated storage
S - Source, surface	D - Distribution system
M - Transmission	O - Other
P - Pumping	
T - Treatment	

INVENTORY OF MUNICIPAL WATER FACILITIES

STATE: HAWAII | DATE: Jan. 1, 1958 | PAGE: 1 of 4

COMMUNITY	1950 Population: Estimated Population Served	Year Oper. Started: Present Supply	Present Treatment Plant	OWNERSHIP	Number of Services: Number of Meters	LAB CONTROL	SOURCE OF SUPPLY	Safe Yield Impounded: Maximum Dependable Draft (Gr. water) MGD	Rated Plant Capacity: Average Plant Output MGD	TREATMENT	Dug Storage: Pumps to Mains / Gravity to Mains MG	IMPROVEMENTS NEEDED	LINE NO.
1	2	3		4	5	6	7	8	9	10	11	12	
AIEA (T)	3,714	1954	M		1,628	N	4 wells	-	-	None	Δ	N	1
	6,500	-	-		1,628	-	-	3.500	0.440	-	2.500	-	
ANAHOLA (Village)	326	Δ	Δ		82	N	High le el tunnel	-	-	None	Δ	N	2
	330	-	-		82	-	-	Δ	0.021	-	0.010	-	
* ELEELE (Village)	993	1953	P		75	N	Infiltration gallery	-	Δ	De	Δ	N	3
	670	Δ	-		71	-	-	1.000	0.320	-	1.600	-	
EWA (T)	3,429	Δ	P		800	N	18 wells	-	-	None	Δ	N	4
	3,500	-	-		Δ	-	-	6.000	0.700	-	0.000	-	
HAIKU (Village)	729	1932	M		261	N	Wailoa Ditch, Waiko	Δ	-	None	Δ	T	5
	Δ	-	-		261	-	Tunnel and stream	Δ	0.082	-	0.130	-	
HAINA	479	1951	P		115	N	Lower Hamakua Ditch	Δ	0.140	P-C M S FgsDc	Δ	TL	6
	479	1951	-		0	-	-	-	0.350	-	0.300	-	
HAKALAU (Village)	698	1918	P		220	N	Jerry Dolima and	-	Δ	Dh	Δ	TL	7
	700	Δ	-		Δ	-	Hakalau Springs	Δ	Δ	-	0.050	-	
HALAULA	1,309	1939	P		209	N	1 well and Bond	-	-	None	Δ	N	8
	825	-	-		Δ	-	Tunnel	Δ	Δ	-	0.500	-	
HALEIWA (Village)	2,142	1956	M		1,037	N	3 wells	-	-	None	Δ	D	9
	5,750	-	-		1,037	-	-	5.200	0.450	-	1.500	-	
HANA (Village)	547	1924	M		195	N	Wailu Stream	Δ	-	None	ω	T	10
	750	-	-		195	-	-	-	0.055	-	0.860	-	
HANALEI (Village)	364	1925	Δ		119	N	Waioli Stream-	Δ	-	None	Δ	T	11
	475	-	-		119	-	East Branch	-	0.026	-	0.030	-	
HANAMAULU (Village)	1,931	Δ	Δ		-	-	Lihue (T)	-	-	None	-	-	12
	(Δ)	-	-		-	-	-	-	-	-	-	-	
HANAPEPE (Village)	1,259	Δ	M		422	N	Infiltration tunnels	-	-	None	Δ	T	13
	1,260	-	-		422	-	off Hanapepe Stream	0.580	0.185	-	0.260	-	
HAUULA (Village)	631	1940	M		334	N	1 well	-	-	None	Δ	N	14
	710	-	-		334	-	-	0.250	0.090	-	0.050	-	
HAWAII NATIONAL PARK	60	1959	M		30	N	Rain catchment sheds	Δ	0.060	P-DhFgDc	Δ	PT	15
	130	1958	-		4	-	-	-	0.015	-	2.000	-	
HAWI (Village)	951	1935	P		271	N	Hapahapai and Watt	-	-	None	Δ	UT	16
	1,000	-	-		Δ	-	No. 1 Tunnels	Δ	0.250	-	0.500	-	
HILO	27,198	1901	M		5,229	N	Streams, Springs	Δ	Δ	Dch	0.500	UTDG	17
	23,500	1950	-		5,229	-	and 2 deep wells	1.400	3.500	-	3.995	-	
HONOKAA (Village)	1,021	Δ	M		325	N	Upper Hamakua Ditch	100.00	0.691	P-SoTcFraDc	Δ	T	18
	1,740	1950	-		325	-	-	-	0.150	-	0.450	-	
HONOKAHUA (Village)	475	1913	P		128	N	Honokahau, Kaluanui	Δ	-	None	Δ	TL	19
	620	-	-		Δ	-	and Honolua Streams	-	0.175	-	0.210	-	
HONOLULU	248,034	1848	M		41,850	C	Springs, Tunnels and	Δ	0.300	DchAtFgsKg	Δ	M	20
Plant # 1	137,500	1956	-		41,853	B	Lulumahu Stream	Δ	20.55	-	28.03	-	
HONOLULU	-	1849	M		Δ	Δ	25 artesian wells	-	Δ	De	Δ	Δ	21
Plant # 2	137,500	1944	-		Δ	-	and shafts	95.400	20.55	-	Δ	-	
HONOMU (Village)	600	Δ	P		Δ	N	Akaka Spring	-	-	None	Δ	TL	22
	600	-	-		Δ	-	-	Δ	0.063	-	0.064	-	
HOOLEHUA (Village)	973	1923	M		280	N	Waihanau and	Δ	-	None	Δ	UT	23
	1,120	-	-		280	-	Kamiloloa Streams	-	0.500	-	9.200	-	
KAAAWA	Δ	1940	M		285	N	Tunnel		-	None	Δ	L	24
	1,254	-	-		285	-	-		0.080	-	Δ	-	
KAHUKU (Village)	1,602	1928	P		Δ	N	3 wells	-	Δ	None	Δ	N	25
	1,750	-	-		Δ	-	-	Δ	Δ	-	0.110	-	
KAHULUI	6,300	1901	M		1,080	N	Wailuku City	-	-	Wailuku City	-	-	26
	(Δ)	-	-		1,110	-	-	-	-	-	-	-	
KAILUA (Village)	326	1952	M		90	N	Waiaha Stream	Δ	0.160	P-S FgsDc	Δ	USL	27
	400	1952	-		90	-	-	-	0.030	-	1.100	-	
KAILUA-LANIKAI	7,740	Δ	M		-	-	Kaneohe	-	-	None	-	Δ	28
	(Δ)	-	-		-	-	-	-	-	-	-	-	
KALAHEO (Village)	972	1923	M		391	N	Alexander Dam, Lawai	Unl.	-	None	Δ	T	29
	975	-	-		391	-	and Kawaewae Streams	-	0.180	-	0.370	-	
KALAUPAPA	365	1930	P		150	N	Waikolu and	0.950	0.500	DhSo	Δ	MT	30
(Molokai)	300	1958	-		0	-	Notley Streams	-	0.200	-	Δ	-	

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INVENTORY OF MUNICIPAL WATER FACILITIES

STATE: HAWAII | DATE: Jan. 1, 1958 | PAGE: 2 of 4

COMMUNITY	1950 Population / Estimated Population Served	Year Oper. Started / Present Supply / Present Treatment Plant	OWNERSHIP	Number of Services / Number of Meters	LAB. CONTROL	SOURCE OF SUPPLY	Safe Yield Impounded / Maximum Dependable Draft (Gr. water) MGD	Rated Plant Capacity / Average Plant Output MGD	TREATMENT	Dist. Storage / Pumps to Mains / Gravity to Mains MG	IMPROVEMENTS NEEDED	LINE NO.
1	2	3	4	5	6	7	8	9	10	11	12	
KAMUELA	1,500	1925	M	495	N	Waimea-Kamuela	-	-	Waimea-Kamuela	-	-	1
	(1,500)	1957	-	495	-	-	-	-	-	-	-	
* KANEOHE (T)	3,208	1955	M	8,261	N	High level tunnels	-	-	None	Δ	N	2
	19,000	-	-	8,261	-	-	12.000	5.250	-	3.600	-	
KAPAA (T)	3,177	Δ	M	1,311	N	High level tunnels	-	-	None	Δ	UDL	3
	3,000	-	-	1,311	-	-	1.000	0.793	-	0.700	-	
KAPAAU	500	1927	M	96	N	Kohala Ditch	Δ	0.120	DeFg	Δ	STDL	4
(Kohala)	500	1927	-	96	-	-	-	0.038	-	0.136	-	
KAPAUU (Village)	1,309	1927	M	98	N	Kohala Ditch	Δ	0.120	P-S Fgs	Δ	TDL	5
	480	Δ	-	98	-	-	-	0.045	-	0.080	-	
KAUMAKANI (Village)	1,283	1947	P	278	N	Infiltration tunnel	-	-	None	Δ	N	6
	1,200	-	-	Δ	-	-	1.440	0.800	-	0.200	-	
KAUNAKAKAI (Village)	709	1921	M	312	N	Makaoleele Stream	Δ	-	None	Δ	UTD	7
	1,500	-	-	312	-	-	-	0.165	-	0.250	-	
KAWAIHAE (Village)	152	Δ	Δ	-	-	Waimea (Village)	-	-	Waimea (Village)	-	-	8
	(Δ)	-	-	-	-	(Kamuela)	-	-	(Kamuela)	-	-	
* KEAAU (Village)	1,620	1952	M	821	N	2 wells	-	Δ	Dh	Δ	T	9
	2,300	Δ	-	821	-	-	2.000	0.300	-	1.100	-	
KEALIA (Village)	655	Δ	P	Δ	N	Well	-	-	None	Δ	N	10
	780	-	-	Δ	-	-	0.860	0.410	-	0.080	-	
KEKAHA (Village)	1,989	1950	M	194	N	Infiltration gallery	-	-	None	Δ	N	11
	1,710	-	-	194	-	-	0.580	0.110	-	0.100	-	
KIHEI	800	1953	M	235	N	Wailuku City	-	-	Wailuku City	-	-	12
	(Δ)	-	-	240	-	-	-	-	-	-	-	
KILAUEA (Village)	757	1920	P	Δ	N	Well	-	-	None	Δ	TL	13
	760	-	-	Δ	-	-	Δ	1.500	-	Δ	-	
KOKOMO (Village)	181	Δ	Δ	-	-	Makawao (Village)	-	-	Makawao (Village)	-	-	14
	(Δ)	-	-	-	-	-	-	-	-	-	-	
KOLOA (Village)	1,470	1953	M	340	N	Well	-	-	None	Δ	N	15
	600	-	-	340	-	-	0.500	0.153	-	0.275	-	
KUALAPUU (Village)	607	1927	Δ	140	N	2 wells	-	-	None	Δ	UT	16
	1,000	-	-	Δ	-	-	Δ	0.280	-	1.326	-	
KUKUIHAELE (Village)	590	Δ	P	Δ	N	Kuikahi Spring	-	-	None	Δ	TDL	17
	Δ	-	-	Δ	-	-	Δ	Δ	-	0.000	-	
KUNIA	600	Δ	P	200	N	3 wells	-	0.100	P-AsDsFrs	0.080	N	18
	525	Δ	-	157	-	-	0.220	0.080	-	Δ	-	
KURTISTOWN	400	Δ	M	Δ	N	Olaa	-	-	Olaa	-	-	19
	(Δ)	-	-	Δ	-	-	-	-	-	-	-	
LAHAINA (T)	4,025	Δ	M	620	N	Kanaha Stream	Δ	-	None	Δ	T	20
Source # 1	3,180	-	-	620	-	-	-	0.331	-	0.256	-	
LAHAINA (T)	-	Δ	P	231	N	Kanaha Stream	Δ	-	None	Δ	TL	21
Source # 2	1,260	-	-	Δ	-	-	-	1.200	-	0.250	-	
LAIE (Village)	841	1925	P	Δ	N	2 wells	-	-	None	Δ	UDL	22
	Δ	-	-	Δ	-	-	Δ	Δ	-	0.100	-	
LANAI CITY (T)	2,746	1924	P	600	N	1 well and	-	-	None	Δ	N	23
	2,400	-	-	600	-	high level tunnels	Δ	0.400	-	2.020	-	
LAUPAHOEHOE (Village)	401	1929	M	104	Δ	Manowaiopae Spring	-	-	None	Δ	UTDL	24
	450	-	-	104	-	-	Δ	0.028	-	0.020	-	
LAWAI	100	Δ	M	Δ	N	Kalaheo	-	-	None	-	-	25
	(Δ)	-	-	Δ	-	-	-	-	-	-	-	
* LIHUE (T)	3,370	Δ	M	695	N	High level tunnels	-	-	None	Δ	UTDL	26
Nawiliwili or Kapaia	2,010	-	-	695	-	-	0.700	0.398	-	0.205	-	
LOWER PAIA (Village)	1,137	1952	M	311	N	Wailoa Ditch System	160.00	-	None	Δ	TL	27
	1,555	-	-	311	-	E.M.I. Co.	-	0.120	-	0.070	-	
LUALUALEI (Village)	1,525	Δ	Δ	-	-	Waianae (Village)	-	-	Waianae (Village)	-	-	28
	(Δ)	-	-	-	-	-	-	-	-	-	-	
MAKAPALA (Village)	381	1939	P	85	N	Maulua Tunnel	-	-	None	Δ	L	29
	350	-	-	Δ	-	-	Δ	Δ	-	0.020	-	
* MAKAWAO (Village)	1,098	1935	M	645	N	Opana Stream	Δ	Δ	None	Δ	T	30
	3,225	-	-	645	-	Awalau Stream	-	0.245	-	1.215	-	

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INVENTORY OF MUNICIPAL WATER FACILITIES

STATE: HAWAII | DATE: Jan. 1, 1958 | PAGE: 3 of 4

COMMUNITY	1950 Population: Estimated Population Served	Year Oper. Started: Present Supply	Present Treatment Plant	OWNERSHIP	Number of Services: Number of Meters	LAB. CONTROL	SOURCE OF SUPPLY	Safe Yield Impounded: Maximum Dependable Draft (Gr. water) MGD	Rated Plant Capacity: Average Plant Output MGD	TREATMENT	Dist. Storage: Pumps to Mains	Dist. Storage: Gravity to Mains MG	IMPROVEMENTS NEEDED	LINE NO.
1	2	3		4	5	6	7	8	9	10		11	12	
MAKAWELI	1,283	1947	P		278	N	Shaft and tunnel	-	-	None	Δ		L	1
	Δ	-	-		0	-	-	1.440	0.800	-		0.200	-	
MAUNALOA (Village)	926	1924	P		226	-	Molokai Ranch Co	-	-	None	-		-	2
	(825)	-	-		Δ	-	-	-	-	-	-		-	
MOUNTAIN VIEW (Village)	747	Δ	Δ		-	-	Keaau (Village)	-	-	Keaau (Village)	-		-	3
	(Δ)	-	-		-	-	-	-	-	-	-		-	
NAALEHU (Village)	1,004	Δ	P		325	N	Mt. House and	-	Δ	Dh	Δ		TDL	4
	1,000	Δ	-		Δ	-	Kahilipali Tunnels	Δ	0.150	-		0.050	-	
NANAKULI (Village) (Nanaikanono)	2,002	Δ	Δ		-	-	Waianae	-	-	Waianae	-		-	5
	(Δ)	-	-		-	-	-	-	-	-	-		-	
* OLAA	2,367	1950	M		773	N	2 wells	-	Δ	Dh	Δ		T	6
	2,300	Δ	-		773	-	-	2.000	Δ	-		0.260	-	
OOKALA (Village)	662	1937	P		195	N	Ookala Tunnel	-	-	None	Δ		T	7
	700	-	-		Δ	-	-	Δ	0.250	-		0.650	-	
PAAUHAU	448	Δ	P		137	N	Lower Hamakua Ditch	Δ	0.102	DcFgSc	Δ		T	8
	448	1949	-		Δ	-	-	-	0.223	-		0.107	-	
PAAUILO	1,103	1950	P		255	N	Well	-	-	None	Δ		TDL	9
	1,103	-	-		Δ	-	-	3.000	Δ	-		0.755	-	
PAHALA (Village)	1,602	1949	P		505	N	Alili and	-	-	None	Δ		MTDL	10
	1,790	-	-		Δ	-	Moauia Tunnels	Δ	0.750	-		0.100	-	
PAIA (T)	3,195	1916	P		1,121	N	Wailoa Ditch System	160.00	-	None	Δ		TL	11
	2,200	-	-		285	-	-	-	1.350	-		0.020	-	
PAPAALOA (Village)	597	1917	P		142	N	Papaaloa Spring	-	-	None	Δ		UMTL	12
	600	-	-		Δ	-	Kihalani Spring	Δ	0.060	-		0.010	-	
PAPAIKOU (Village) Source # 1	1,427	1914	P		230	N	Wahulua Spring and	Δ	Δ	Dh	Δ		SMT	13
	1,000	Δ	-		Δ	-	Wahulua Stream	Δ	0.100	-		0.150	-	
PAPAIKOU (Village) Source # 2		1928	M		120	N	Kaiele Spring	-	-	None	Δ		N	14
	740	-	-		120	-	-	Δ	0.040	-		0.070	-	
PAUWELA-KUIAHA (Village)	618	1930	M		79	N	Wailoa Ditch System	160.00	-	None	Δ		T	15
	395	-	-		79	-	-	-	0.072	-		0.070	-	
PEARL CITY (T)	2,663	1953	M		1,200	N	4 wells, Pearl City	-	-	None	Δ		N	16
	4,800	-	-		1,200	-	Vertical Shaft	3.000	0.750	-		1.300	-	
PEPEEKEO	764	1946	P		238	N	Well and	-	-	None	Δ		L	17
	764	-	-		Δ	-	Maukaloa Spring	Δ	Δ	-		0.082	-	
PUHI (Village)	765	1911	P		240	N	High level tunnel	-	-	None	Δ		T	18
	695	-	-		Δ	-	-	Δ	0.200	-		0.144	-	
PUKALANI	1,000	1905	M		170	N	Makawao	-	-	None	-		-	19
	(5,000)	-	-		180	-	-	-	-	-	-		-	
PUUKOLII (Village)	689	Δ	Δ		218	N	Honokawai Stream	1.740	-	None	Δ		T	20
	700	-	-		Δ	-	-	-	0.760	-		2.000	-	
* PUUNENE	3,500	1910	P		1,200	N	8 streams on Eastern	160.00	3.000	P-DcFgaSb	Δ		TG	21
	3,200	1916	-		1,200	-	Haleakala Slopes	-	2.000	-		13.90	-	
SPRECKELSVILLE	2,100	1910	P		400	N	Puunene	-	-	Puunene	-		-	22
	(1,900)	-	-		400	-	-	-	-	-	-		-	
WAHIAWA CITY	8,369	1947	Δ		3,091	N	2 wells	-	Δ	Dc	Δ		L	23
	12,000	Δ	-		3,091	-	-	2.800	1.500	-		9.130	-	
WAHIAWA (New Mill Village)	568	Δ	Δ		-	-	Eleele (Village)	-	-	Eleele (Village)	-		-	24
	(570)	Δ	-		-	-	-	-	-	-	-		-	
WAIAKOA (Village)	517	Δ	Δ		-	-	Makawao	-	-	Makawao	-		-	25
	(Δ)	-	-		-	-	-	-	-	-	-		-	
WAIALUA	2,602	1947	M		814	Δ	3 wells	-	-	None	Δ		N	26
	5,754	-	-		814	-	-	5.200	0.350	-		1.700	-	
WAIALUA MILL (T)	2,602	1924	P		Δ	N	14 wells	-	-	None	Δ		N	27
	2,500	-	-		Δ	-	-	Δ	Δ	-		0.000	-	
* WAIANAE (Village) Source # 1	1,000	Δ	P		546	N	High level tunnel	-	Δ	Dc	Δ		TL	28
	2,200	1942	-		546	-	-	2.000	0.500	-		0.050	-	
* WAIANAE (Village) Source # 2	-	1952	M		1,175	N	High level tunnel	-	-	None	Δ		ML	29
	5,000	-	-		1,175	-	-	2.000	0.800	-		0.400	-	
WAIKAPU (Village)	549	Δ	Δ		-	-	Wailuku City	-	-	None	-		-	30
	(Δ)	Δ	-		-	-	-	-	-	-	-		-	

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INVENTORY OF MUNICIPAL WATER FACILITIES

STATE: HAWAII | DATE: Jan. 1, 1958 | PAGE: 4 of 4

COMMUNITY	1950 Population / Estimated Population Served	Year Oper. Started / Present Supply / Present Treatment Plant	OWNERSHIP	Number of Services / Number of Meters	LAB. CONTROL	SOURCE OF SUPPLY	Safe Yield Impounded / Maximum Dependable Draft (Gr. water) MGD	Rated Plant Capacity / Average Plant Output MGD	TREATMENT	Dist. Storage / Pumps to Mains / Gravity to Mains MG	IMPROVEMENTS NEEDED	LINE NO.
1	2	3	4	5	6		8	9	10	11	12	
WAILEA (Village)	341	1920	P	50	N	Wailea Spring	-	Δ	Dh	Δ	TL	1
	200	Δ	-	Δ	-	-	Δ	0.020	-	0.010	-	
★ WAILUKU CITY	7,424	1954	Δ	2,883	N	2 wells and	-	-	None	Δ	T	2
	14,000	-	-	2,880	-	high level tunnel	9.000	4.500	-	3.100	-	
WAIMANOLO (Village)	869	1941	M	942	N	Well and 3 high	-	-	None	Δ	UT	3
	3,800	-	-	942	-	level tunnels	0.850	0.500	-	0.700	-	
WAIMEA(Village)	1,648	1925	M	360	N	Vertical shaft	-	-	None	Δ	N	4
	1,650	-	-	360	-	and tunnel	0.860	0.281	-	0.120	-	
★ WAIMEA (Village)	560	Δ	M	447	N	Waikoloa and	8.500	0.300	P-SoFgaDc	Δ	N	5
(Kamuela)	1,500	1957	-	447	-	Hauani Streams	-	0.250	-	7.000	-	
WAIOHINU (Village)	163	1934	M	67	N	Haao Springs	-	-	None	Δ	T	6
	175	-	-	67	-	-	Δ	0.030	-	0.030	-	
WAIPAHU CITY	7,169	1954	M	938	N	3 wells	-	-	None	Δ	N	7
	3,800	-	P	938	-	-	4.200	0.600	-	1.500	-	
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PLACES WITH NO COMMUNITY WATER SUPPLY

HAWAII

LOCATION	1950 CEN POP
CAPTAIN COOK HAWAII	1,687
HOLUALOA HAWAII	475
HONAUNAU HAWAII	150
KAPOHO HAWAII	250
KEALAKEKUA HAWAII	325
KEAUHOU HAWAII	250
NINOLE HAWAII	112
PAHOA HAWAII	1,046

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